

Patent Claims

1. Method for production of a brochure (1), wherein at least one contents sheet (5) and a cover sheet (4) are arranged one above the other, joined and folded, characterized in that the contents sheet (5) and the cover sheet (4) are placed on separate guide planes (7, 8) before folding, these guide planes (7, 8) lying one above the other at a distance from one another in the vicinity of a folding device, in that a stripe of glue is applied for joining the sheets (4, 5) before folding, and in that the folding device (6) is moved in such a way that the sheets are joined to one another and folded simultaneously.
2. Method according to claim 1, characterized in that the cover sheet (4) is placed on the lower guide plane (8) and the contents sheet (5) is placed on the upper guide plane (7).
3. Method according to claim 1 or 2, characterized in that the contents sheet (5) reaches the guide plane (7) directly from a feeder.
4. Method according to claim 1 or 2, characterized in that the contents sheet (5) which is folded n times reaches the guide plane (7) directly from a folding machine (9).
5. Method according to one of claims 1 to 4, characterized in that the cover sheet (4) reaches the guide plane (8) directly from a feeder (10).
6. Method according to one of claims 1 to 5, characterized in that the two guide planes (7, 8) are supplied from opposite directions (A, B) simultaneously with the cover sheet (4) on one side and the contents sheet (5) on the other side.
7. Method according to one of claims 3 to 6, characterized in that the folding machine (6) or the feeder for the contents sheet (5) and the feeder (10) for the cover sheet (4) are mobile devices that are advanced directly to the two guide planes (7, 8).
8. Method according to one of claims 1 to 7, characterized in that the two guide planes (7, 8), the folding device (6) and the joining means supply device (3) are mobile devices that are advanced directly to the folding machine (9) or feeder for the contents sheet (5) and to the feeder (10) for the cover sheet (4).
9. Method according to one of claims 1 to 8, characterized in that the cover sheet (4) is provided with joining means, particularly a stripe of glue, before it is placed in the guide plane (8).

10. Method according to one of claims 1 to 9, characterized in that a maximum of 15,000 to 20,000 contents sheets (5) and cover sheets (4) per hour are fed to the two guide planes (7, 8).

11. Method according to one of claims 1 to 10, characterized in that the area of the folding device (6) is monitored to determine whether or not the contents sheet (5) and cover sheet (4) are already placed and/or exactly positioned on the guide planes (7, 8) and/or have deficient quality.

12. Method according to one of claims 1 to 11, characterized in that defective and/or incorrectly positioned contents sheets (5) and cover sheets (4) are sorted out of the folding device (6) and removed.

13. Method according to one of claims 1 to 12, characterized in that a cover sheet (4) and a contents sheet (5) are folded to form the brochure (1).

14. Method according to one of claims 1 to 13, characterized in that the quality features of the brochure (1) are detected after folding.

15. Method according to one of claims 1 to 14, characterized in that the brochure (1) is fed to a trimming or cutting device (17) after folding and is cut therein.

16. Device for the production of a brochure (1), in particular for carrying out the method according to one of claims 1 to 15, with at least one sheet feed (2), with a joining device for joining a cover sheet (4) to at least one contents sheet (5), and with a folding device (6), characterized in that two guide planes (7, 8) lying one above the other at a distance from one another are provided in the vicinity of the folding device (6) for separate placement of the contents sheet (5) and cover sheet (4) in a guide plane (7, 8), respectively, in that a joining means supply device (3, 13) is provided for applying joining means, in particular a stripe of glue, and in that the folding device (6) simultaneously joins the sheets (4, 5) when folding.

17. Device according to claim 16, characterized in that the guide plane (7) for the contents sheet (5) cooperates with a folding machine (9) or with a feeder and can be supplied by the latter with a contents sheet (5) in immediate succession.

18. Device according to claim 16 or 17, characterized in that the guide plane (8) for the cover sheet (4) cooperates with a feeder (10) and can be supplied with a cover sheet

(4) by the latter in immediate succession.

19. Device according to one of claims 16 to 18, characterized in that the folding machine (9) or the feeder for the contents sheet (5) is arranged at the guide plane (7) adjacent to the folding device (6), in particular at the upper guide plane (7).

20. Device according to one of claims 16 to 19, characterized in that the feeder (10) for the cover sheet (4) is arranged at the guide plane (8) adjacent to guide plane (7), in particular at the lower guide plane (8).

21. Device according to one of claims 16 to 20, characterized in that the feeder (10) for the cover sheet (4) and the folding machine (9) or feeder for the contents sheet (5) are arranged on opposite sides of the guide planes (7, 8) so that the cover sheet (4) and the contents sheet (5) can be transported in opposite directions (A, B) simultaneously.

22. Device according to one of claims 16 to 21, characterized in that stops (11, 12) are provided at the guide planes (7, 8) and, in particular, can be adjusted to the dimensions of the sheets (4, 5).

23. Device according to one of claims 16 to 22, characterized in that monitoring devices which detect whether or not the contents sheet (5) and cover sheet (4) are placed and/or exactly positioned on the guide planes (7, 8) and/or which detect deficient quality are provided in the vicinity of the folding device (6).

24. Device according to one of claims 16 to 23, characterized in that a sorting device is provided which sorts out defective or incorrectly positioned contents sheets (5) and cover sheets (4) from the vicinity of the folding device (6) and removes them.

25. Device according to one of claims 16 to 24, characterized in that a good/bad detection device is provided which detects quality features of the brochure (1) after it exits the folding device (6).